

# Srivathsan S

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## EDUCATION

**Trinity College, Dublin**, Dublin, Ireland

Sep 2023 - Expected: Aug 2024

Masters in Physics - Quantum Technologies

Coursework: Quantum Information Science, Open Quantum Systems and Thermodynamics, Quantum Materials and Nanophotonics, Quantum Computation and Algorithms, Physical Implementations of Quantum Technology, Quantum Machine Learning, Introduction to Tensor Networks.

**SASTRA University, Thanjavur**, Tamilnadu, India

Jul 2016 - May 2020

Bachelor of Technology - Information and Communication Technology

Coursework: Data Structures and Algorithms, Machine Learning, Artificial Intelligence, Cryptography, Theory of Computation, Data Mining, DBMS, Operating Systems, Networking.

## EXPERIENCE

**Tata Consultancy Services**

*Systems Engineer*

Nov 2020 - Jul 2023

Develop, Maintain and Upgrade legacy systems of client Kemper Insurance in BFSI Domain in the Unix and Python tech stack. Spear-headed and Initiated many projects to alleviate technology bottleneck by gaining the Contextual Master level in the domain.

**Poornaprajna Institute of Scientific Research**

*Student Intern*

May 2019 - Jun 2019

Attended lectures by Prof. R.Srikant on Mathematical methods of Physics such as Vector Spaces, Partial Differential Equations; Fourier and Laplace transforms, Lagrangian and Hamiltonian Interpretations, Solving Schrodinger's Equation for various scenarios.

## PROJECTS

**Master's Thesis - Trinity College Dublin\***

Working on my Master's Research Thesis Topic titled "**Evaluating the Distance from Quantum Objective States**" where I research quantum discord measure from SBS states under Prof. Felix Binder as part of the Quantum Information Theory Group.

**iGEM 2019**

House of Toeholds [🔗](#)

Part of the college team that won Silver Medal in iGEM 2019, Boston. Developed the Project Website and Machine Learning Classifier for identifying optimal toehold switch design based on physical parameters towards detection of Cervical Cancer Markers.

**Open Source Development**

Github [🔗](#)

Contributing and maintaining Open Source Projects on GitHub including my personal website and experimenting and learning with various Quantum SDKs such as Qiskit. Also contains the website and apps developed for various MSMEs on a freelance basis.

## PUBLICATIONS

**Detection and Prediction of Schizophrenia Using Magnetic Resonance Images and Deep Learning**

*S. Srivathsan, B. Sreenithi, J. Naren*

Cognitive Informatics and Soft Computing. Advances in Intelligent Systems and Computing, vol 1040. Springer, Singapore.

**Computer Aided System for Autism Spectrum Disorder Using Deep Learning Methods**

*K. Sairam, J. Naren, Dr. G. Vithya, S. Srivathsan*

International Journal of Psychosocial Rehabilitation, Vol 23 Issue 1,2019.

**Supporting Individuals with Autistic Spectrum Disorder with Various Technologies: A Review**

*J. Naren, Dr. G. Vithya, S. Srivathsan, Bharath Reddy*

International Journal of Psychosocial Rehabilitation, Vol 23 Issue 1,2019.

## SKILLS

- **Programming:** C++, Python, Go, Java.
- **Software:** Git, Unix, Google Cloud Certification.
- **Frameworks:** Scipy, Qiskit, Tensorflow\*.
- **Certifications:** QBronze, QSilver.

## OTHERS

- Other Internship and Project Experiences can be found in my website [🔗](#).
- Currently learning HPC Stack with OpenCUDA and Julia.
- Google Scholar Profile : S Srivathsan [🔗](#)
- **Software:** Git, Unix, Google Cloud Certification.
- **Frameworks:** Scipy, Qiskit.